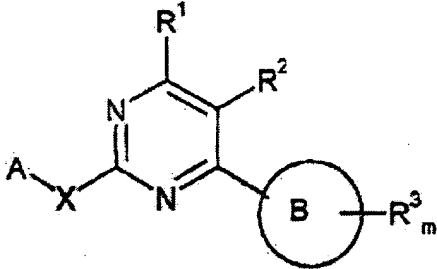
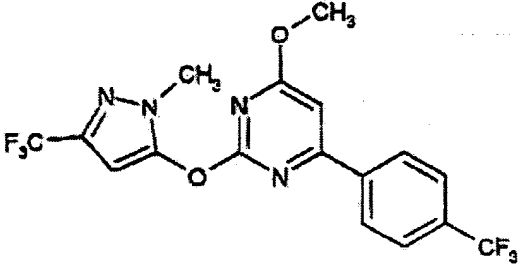
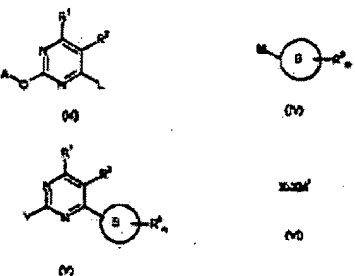


<p>1999-581823/50 C02 AMCY 1998.03.06          AMERICAN CYANAMID CO *DE 19909541-A1          1998.03.06 1998-036491(+1998US-036491) (1999.10.14) C07D          239/46, A01N 43/54, C07D 471/12, 487/12, 239/32          New pyrimidine derivatives useful as herbicides, especially for          selective weed control          C2000-106912          Addnl. Data: SCHEIBLICH S, MAIER T, KLEEMAN A.          BALTRUSCHAT H S          1999.03.04 1999DE-1009541</p>	<p>C(7-D12, 14-V2) 2</p>  <p>(I)</p>
<p><b>NOVELTY</b>          2-Aryloxy- or 2-aryltio-6-aryl-pyrimidine derivatives (I) are new.</p> <p><b>DETAILED DESCRIPTION</b>          2-Aryloxy- or 2-aryltio-6-aryl-pyrimidine derivatives of formula (I) are new.</p>	<p>A = optionally substituted aryl, optionally substituted 5- or 6-membered heteroaryl or difluorobenzodioxolyl;          B = phenyl or thienyl;          m = 0-5;          R<sup>1</sup> = halogen, CN or optionally substituted alkyl, alkenyl, alkynyl, alkoxyalkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, alkylamino or dialkylamino;          R<sup>2</sup> = H, halogen, CN or optionally substituted alkyl, alkoxy, haloalkyl</p> <p>DE 19909541-A+</p>

<p>or haloalkoxy;          R<sup>3</sup> = halogen, NO<sub>2</sub>, CN, haloalkyl, haloalkoxy, haloalkylthio, SF<sub>6</sub>, or optionally substituted alkyl, alkenyl, alkynyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl;          X = O or S.</p> <p><b>ACTIVITY</b>          Herbicidal. In a pre-emergence test, 2-(2-chloro-4-pyridyloxy)-6-methyl-4-(4-trifluoromethylphenyl)-pyrimidine at an application rate of 0.4 kg/ha gave 100% control of poppy (<i>Papaver rhoeas</i>) and 91-99% control of chickweed (<i>Stellaria media</i>).</p> <p><b>MECHANISM OF ACTION</b>          None given.</p> <p><b>USE</b>          (I) are herbicides useful for selective weed control, e.g. for pre-emergence weed control in winter wheat, maize, soya, cotton or rice, or post-emergence weed control in winter wheat or maize.</p> <p><b>ADVANTAGE</b></p>	<p>(I) have good selectivity and biodegradability. In a pre-emergence test, 2-(2-chloro-4-pyridyloxy)-6-methyl-4-(4-trifluoromethylphenyl)-pyrimidine at an application rate of 0.4 kg/ha caused no damage to winter wheat, maize, soya, cotton or rice.</p> <p><b>SPECIFIC COMPOUNDS</b>          9 Compounds (I) are specifically claimed, e.g. 4-methoxy-2-(1-methyl-3-trifluoromethyl-5-pyrazolyloxy)-6-(4-trifluoromethylphenyl)-pyrimidine of formula (Ia).</p>  <p>(Ia)</p> <p>DE 19909541-A+/1</p>
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<p>1999-581823/50</p> <p><b>EXAMPLE</b>          A mixture of 4-methyl-2-methylsulfonyl-6-(4-trifluoromethylphenyl)-pyrimidine (0.32 g), 3-trifluoromethylphenol (0.18 g), potassium carbonate (0.25 g) and acetonitrile (25 ml) was refluxed for 4 hours, diluted with water and extracted with methyl acetate to give 4-methyl-2-(3-trifluoromethylphenyl)-6-(4-trifluoromethylphenyl)-pyrimidine (0.39 g), m.pt. 124-127°C.</p> <p><b>TECHNOLOGY FOCUS</b>          Organic Chemistry - Preparation: (I) is prepared by:          (1) reacting a compound of formula (III) with a metal compound of formula (IV) and oxidizing the product when L is hydrogen; or          (2) reacting a compound of formula (V) with a compound of formula (VI).</p>	 <p>L = H or a leaving group;          M = Li, Mg, Zn, B or Sn;          Y = a leaving group; and          M' = H or metal.</p> <p>(15pp367DwgNo.0/0)</p> <p>DE 19909541-A/2</p>
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